

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	465	((((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 09:30
L3	271	(( rotation\$1 near angle\$1 ) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and (( rotation\$1 near angle\$1) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 07:38
L4	16	(US-20040059448-\$ or US-20030115925-\$ or US-20020111778-\$ or US-20040176862-\$ or US-20030050723-\$ or US-20020089830-\$).did. or (US-6204860-\$ or US-7013236-\$ or US-6178540-\$ or US-5506950-\$ or US-6148505-\$ or US-7164957-\$ or US-7024341-\$ or US-7200537-\$ or US-6285957-\$ or US-5835693-\$). did.	US-PGPUB; USPAT	OR	ON	2007/05/22 08:15
L5	13	("3946768"   "4912644"   "5083369"   "5109479"   "5127062").PN. OR ("5506950").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/22 08:17
L7	79	((((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5)) and ((property or properties or attribute\$1 or physical\$1) with (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 08:38

## EAST Search History

L8	121	((((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5)) and ((property or properties or attribute\$1 or physical\$1 or characteristic\$5) with (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 08:43
L9	171	((((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5)) and ((property or properties or attribute\$1 or physical\$1 or characteristic\$5 or material\$1) with (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 08:44
L11	123	((((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5)) and (clamp\$5 with angle\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 10:21

## EAST Search History

L12	5	((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5)) and (clamp\$5 with angle\$1 with rotation\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 11:59
L13	311	(702/155).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/22 11:58
L14	1726	(702/150-154).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/22 11:58
L15	1	l13 and (((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 11:59
L16	9	l14 and (((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 12:01
L17	3777	(703/2,6,13).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/22 12:01
L18	8	l17 and (((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 13:09
L19	2	"20030020711"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 13:14

## EAST Search History

L20	2	"20030020715"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 13:15
L21	3	I19 I20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 13:16
L22	0	I21 and (clamp\$5 with rotation\$1 with angle\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 13:19
L23	2	I21 and clamp\$5 and \$axis	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 13:19
S1	50	SAWAI-MASAYOSHI	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 17:07
S2	181	NAKANO-AKIHISA	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 17:08
S3	40396	yazaki.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 17:08
S4	4	S1 and twist\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 17:08
S5	1	S2 and twist\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 17:12
S6	728	S3 and twist\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 17:13

## EAST Search History

S7	0	S2 and (twist\$4 with ang\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 17:12
S8	557	S3 and twist\$4 and (wire\$4 or clamp\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 17:16
S9	562	S3 and twist\$4 and (wire\$4 or harness\$4 or clamp\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 17:47
S10	3	S3 and twist\$4 and (wire\$4 or harness\$4 or clamp\$4) and ((calculat\$5 or estimat\$6 or predict\$5 or comput\$6) with (angle\$1 or angular))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 18:02
S11	3	("5506950"   "6272387"   "6842173").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/18 17:44
S12	0	("7164957").URPN.	USPAT	OR	ON	2007/05/18 17:44
S13	23	S3 and (twist\$4 with (value\$1 or angle\$1 or limit\$4)) and (wire\$4 or harness\$4 or clamp\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 17:48
S14	4597	((twist\$4 with (value\$1 or angle\$1 or limit\$4)) same (wire\$4 or harness\$4 or clamp\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 17:48
S15	3228	((twist\$4 with (value\$1 or angle\$1 or limit\$4)) with (wire\$4 or harness\$4 or clamp\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 17:56
S16	1383	((twist\$4 with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 18:02
S17	2109	((twist\$4 with ( angle\$1 )) same(wire\$4 or harness\$4 or clamp\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/18 18:07

## EAST Search History

S18	44	((twist\$4 with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4)) and finite	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 07:09
S19	174	((twist\$4 or deform\$6 or bend\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4)) and finite	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 07:13
S20	31	((twist\$4 with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4)) and finite	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 07:13
S21	99	((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4)) and finite	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 07:21
S22	44	((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4)) and finite and ((twist\$4 or deform\$6 or bend\$4 or branch\$4) near2 ( angle\$1 ))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 07:23
S23	16	((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4)) and finite and (((twist\$4 or deform\$6 or bend\$4 or branch\$4) near2 ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 07:28
S24	19	((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4 or cable\$1)) and finite and (((twist\$4 or deform\$6 or bend\$4 or branch\$4) near2 ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 07:28
S25	29	((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4 or cable\$1)) and finite and (((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 12:26

## EAST Search History

S26	109	((((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4 or cable\$1)) and (finite or model\$5 or simulat\$5) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 08:23
S27	112	((((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4 or cable\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 08:26
S28	146	((((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4 or cable\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 08:34
S29	147	((((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4 or cable\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 10:24
S30	158	((((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 14:03

## EAST Search History

S31	18	((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4 or cable\$1)) and (finite near (element\$1 or model\$5)) and ((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 14:02
S32	56	((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) with (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and ((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5)) and ((model\$6 or simulat\$6) with (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 13:59
S33	997	(finite adj element\$1).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 14:00
S34	26	((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1)) and (finite near (element\$1 or model\$5)) and ((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 14:02
S35	314	((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and ((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 16:59



## EAST Search History

S36	29	((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)) and (finite adj element\$1) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 09:30
S37	111	((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) and (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1) and (finite adj element\$1) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 14:10
S38	1329	((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) and (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 14:24
S39	63	((twist\$4 or deform\$6 or bend\$4 or branch\$4 or turn\$4) with ( angle\$1 )) same (wire\$4 or harness\$4 or clamp\$4 or cable\$1 or wiring\$1)) and (finite or model\$5 or simulat\$5 or cad or (computer adj aid\$5)) and (((twist\$4 or deform\$6 or bend\$4 or branch\$4) with ( angle\$1 )) with (calculat\$5 or detect\$5 or measur\$6 or comput\$6 or determin\$5)) and ((reference\$1 or predetermine\$1) with (shape\$1 or geometr\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 15:57